

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47 - 001 - 03350 County Barbour District Philipi
Quad Audra Pad Name AUD7 Field/Pool Name AUD7
Farm name Brian E. & Lisa L. Murphy Well Number AUD7 GHS
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Road City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4330694.81 m Easting 579245.10 m
Landing Point of Curve Northing 4330754.02 m Easting 579607.15 m
Bottom Hole Northing 4328775.9 m Easting 581915.6 m

Elevation (ft) 1568' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Synthetic Oil Base Mud, Additives - Lime, Calcum Chloride, Gilsonite, Asphalt, Barite, Emulsifier, Base Oil

Date permit issued 7/13/2018 Date drilling commenced 7/31/2018 Date drilling ceased 8/08/18
Date completion activities began 11/21/18 Date completion activities ceased 12/12/18
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 160', 635', 725', 730' Open mine(s) (Y/N) depths Y
Salt water depth(s) ft 1870' Void(s) encountered (Y/N) depths 328' - 336'
Coal depth(s) ft 320', 635', 725', 730' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

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Reviewed by:

Lennet Reynolds
5-7-20

API 47-001 - 03350

Farm name Brian E. & Lisa L. Murphy

Well number AUD7 GHS

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	42"	30"	74'	N	LS 120#	NA	N (grout)
Surface	26"	20"	415.9	N	J-55 94#	332'	Y
Coal	17 1/2"	13 3/8"	815.8'	N	J-55 54.5#	NA	N (grout)
Intermediate 1	12 3/8"	9 5/8"	2164'	N	J-55 36#	NA	Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	18456'	N	P-110 23#	NA	
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	675	15.60	1.22	820	0'	24
Surface	Class A	562 / 95	15.60	1.18	863	Surface	8
Coal	Class A	749	15.60	1.20	898	Surface	8
Intermediate 1	Class A	728	15.60	1.22	842	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	3790	Lead 13.5, Tail 14.5	Lead 1.41, Tail 1.18	4696	Surface	8
Tubing							

Drillers TD (ft) 18,456'

Loggers TD (ft) None

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 5810' MD

Check all wireline logs run

- caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No

Conventional Sidewall

Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING See Attached

Fresh Water - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface

Coal - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface

Intermediate - Bow spring centralizers on the first two joints and every fourth joint inside surface casing

Production - Run 1 spiral centralizer every 3 joints from the 1st 5.5' long joint to the top of the curve

WAS WELL COMPLETED AS SHOT HOLE Yes No

DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No

DETAILS _____

WERE TRACERS USED Yes No

TYPE OF TRACER(S) USED _____

API 47- 001 - 03350 Farm name Brian E. & Lisa L. Murphy Well number AUD7 GHS

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
			See Attached		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			See Attached					

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Please insert additional pages as applicable.

API 47- 001 - 03350 Farm name Brian E. & Lisa L. Murphy Well number AUD7 GHS

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus Shale</u>	<u>7503'</u> TVD	<u>8068'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3350 psi Bottom Hole NA psi DURATION OF TEST 565 hrs

OPEN FLOW Gas 14504 mcfpd Oil NA bpd NGL NA bpd Water 960 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<u>0</u>		<u>0</u>		
			<u>See Attached</u>		

Please insert additional pages as applicable.

Drilling Contractor Patterson Drilling
Address 2198 University Drive City Lemont Furnace State PA Zip 15456

Logging Company Schlumberger
Address 100 Gillingham Lane City Sugar Land State TX Zip 77478

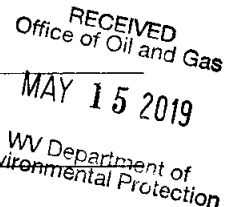
Cementing Company C&J Energy Services
Address 3990 Rogerdale City Houston State TX Zip 77042

Stimulating Company Stingray
Address 14201 Caliber Drive City Oklahoma City State OK Zip 73124

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
Signature Diane White Title _____ Date 5/13/19

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry



HG Energy II Appalachia, LLC

AUD7 GHS - 47-001-03350

Perforation Record

Stage Number	Perforation	Perforated	Perforated	Number of	
Number	Date	from MD ft.	to MD ft.	Perforations	Formations
1	11/19/2018	18,248	18,298	0	Marcellus
2	11/20/2018	18,198	18,217	72	Marcellus
3	11/20/2018	18,024	18,043	72	Marcellus
4	11/21/2018	17,850	17,869	72	Marcellus
5	11/21/2018	17,676	17,695	72	Marcellus
6	11/21/2018	17,502	17,521	72	Marcellus
7	11/21/2018	17,328	17,347	72	Marcellus
8	11/22/2018	17,154	17,021	72	Marcellus
9	11/22/2018	16,980	16,847	72	Marcellus
10	11/23/2018	16,806	16,673	72	Marcellus
11	11/23/2018	16,632	16,499	72	Marcellus
12	11/26/2018	16,458	16,325	72	Marcellus
13	11/27/2018	16,284	16,151	72	Marcellus
14	11/27/2018	16,110	15,977	72	Marcellus
15	11/28/2018	15,936	15,803	72	Marcellus
16	11/28/2018	15,762	15,629	72	Marcellus
17	11/29/2018	15,588	15,455	72	Marcellus
18	11/29/2018	15,414	15,281	72	Marcellus
19	11/29/2018	15,240	15,107	72	Marcellus
20	11/30/2018	15,066	14,933	72	Marcellus
21	11/30/2018	14,892	14,759	72	Marcellus
22	11/30/2018	14,718	14,585	72	Marcellus
23	12/1/2018	14,544	14,411	72	Marcellus
24	12/1/2018	14,370	14,237	72	Marcellus
25	12/1/2018	14,063	14,196	72	Marcellus
26	12/2/2018	13,889	14,022	72	Marcellus
27	12/2/2018	13,715	13,848	72	Marcellus
28	12/2/2018	13,541	13,674	72	Marcellus
29	12/3/2018	13,367	13,500	72	Marcellus
30	12/3/2018	13,193	13,326	72	Marcellus
31	12/3/2018	13,019	13,152	72	Marcellus
32	12/4/2018	12,845	12,978	72	Marcellus
33	12/4/2018	12,671	12,804	72	Marcellus
34	12/4/2018	12,497	12,630	72	Marcellus
35	12/4/2018	12,323	12,456	72	Marcellus
36	12/5/2018	12,149	12,282	72	Marcellus
37	12/5/2018	11,975	12,108	72	Marcellus
38	12/5/2018	11,801	11,934	72	Marcellus
39	12/6/2018	11,627	11,760	72	Marcellus
40	12/6/2018	11,453	11,586	72	Marcellus
41	12/6/2018	11,279	11,412	72	Marcellus
42	12/7/2018	11,105	11,238	72	Marcellus
43	12/7/2018	10,931	11,064	72	Marcellus
44	12/8/2018	10,757	10,890	72	Marcellus
45	12/8/2018	10,583	10,716	72	Marcellus
46	12/8/2018	10,409	10,542	72	Marcellus
47	12/8/2018	10,235	10,368	72	Marcellus
48	12/8/2018	10,061	10,194	72	Marcellus
49	12/9/2018	9,887	10,020	72	Marcellus
50	12/9/2018	9,713	9,846	72	Marcellus
51	12/9/2018	9,539	9,672	72	Marcellus
52	12/10/2018	9,365	9,498	72	Marcellus
53	12/10/2018	9,183	9,323	72	Marcellus
54	12/10/2018	9,001	9,141	72	Marcellus
55	12/11/2018	8,819	8,959	72	Marcellus
56	12/11/2018	8,637	8,777	72	Marcellus
57	12/11/2018	8,455	8,595	72	Marcellus
58	12/12/2018	8,170	8,344	49	Marcellus
59	12/12/2018	8,091	8,231	72	Marcellus

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HG Energy II Appalachia, LLC
AUD7 GHS - 47-001-03350
Stimulation Information Per Stage

Stage Number	Stimulation Date	Avg Pump Rate (BPM)	Avg Pressure (psi)	Breakdown (psi)	ISIP (psi)	Amount of Proppant (klbs)	Amount of Water (bbls)	Amount of Acid (gallons)
1	11/19/2018	73.9	10,429	n/a	4,420	106.1	7,366	1,974
2	11/20/2018	82.2	10,396	7,304	4,310	329.4	11,363	2,016
3	11/20/2018	77.1	9,948	6,476	4,376	267.7	9,633	1,008
4	11/21/2018	83.1	10,393	6,834	4,520	420.1	13,614	1,008
5	11/21/2018	74.4	9,848	7,184	4,803	555.5	12,333	1,050
6	11/21/2018	72.7	9,442	6,681	5,031	580.1	12,697	1,008
7	11/21/2018	76.0	10,315	7,373	5,370	574.7	12,349	1,008
8	11/22/2018	80.3	8,944	6,337	5,384	586.0	13,552	1,008
9	11/22/2018	85.2	9,632	6,650	5,540	572.6	12,103	966
10	11/23/2018	85.8	9,699	6,575	5,550	570.6	12,877	1,050
11	11/23/2018	86.5	9,566	6,395	7,515	477.6	11,383	966
12	11/26/2018	89.8	9,428	6,424	5,446	579.2	13,140	1,008
13	11/27/2018	82.4	10,055	6,449	5,326	592.8	13,272	1,008
14	11/27/2018	79.0	9,706	6,990	5,081	564.6	13,632	1,050
15	11/28/2018	88.7	9,600	6,374	5,603	585.4	12,608	1,008
16	11/28/2018	82.9	9,343	5,867	5,820	610.4	12,775	966
17	11/29/2018	81.9	9,813	6,593	5,438	628.6	13,236	924
18	11/29/2018	81.2	9,587	7,120	6,020	360.4	9,177	2,016
19	11/29/2018	81.9	9,750	6,546	6,134	613.0	13,061	1,974
20	11/30/2018	83.1	9,812	7,082	6,228	587.9	13,426	1,008
21	11/30/2018	83.5	9,364	7,172	6,288	616.6	11,792	1,050
22	11/30/2018	84.7	9,677	7,131	6,645	492.7	11,126	1,050
23	12/1/2018	82.1	9,686	6,744	5,950	606.3	12,097	966
24	12/1/2018	81.5	9,549	6,853	6,040	619.0	11,850	966
25	12/1/2018	86.4	9,073	6,763	6,558	611.7	11,868	1,008
26	12/2/2018	89.6	9,511	6,458	6,160	608.5	11,760	1,008
27	12/2/2018	89.5	8,838	6,258	5,570	619.0	11,725	1,050
28	12/2/2018	87.5	9,216	6,234	5,857	470.5	10,028	966
29	12/3/2018	82.7	9,513	9,412	5,743	593.0	14,293	1,008
30	12/3/2018	85.5	9,050	6,933	5,861	463.3	10,344	1,008
31	12/3/2018	88.4	8,958	6,664	5,908	586.8	11,279	1,008
32	12/4/2018	89.2	8,954	6,676	5,621	605.3	12,256	1,050
33	12/4/2018	94.2	8,059	7,124	6,644	620.1	11,451	966
34	12/4/2018	87.2	9,223	7,310	5,745	582.7	12,551	966
35	12/4/2018	90.2	9,117	6,787	5,564	540.4	11,528	1,008
36	12/5/2018	89.9	9,064	5,800	6,419	618.8	10,932	1,092
37	12/5/2018	92.5	8,779	6,106	6,320	580.6	11,390	1,008
38	12/5/2018	77.8	9,784	6,462	6,420	488.4	13,170	966
39	12/6/2018	87.9	8,728	6,240	5,721	545.5	10,533	1,050
40	12/6/2018	84.0	8,622	6,570	5,740	564.1	10,938	966
41	12/6/2018	81.6	8,518	6,413	5,300	410.2	10,008	966
42	12/7/2018	80.3	8,477	6,661	6,208	619.8	12,768	1,008
43	12/7/2018	78.0	8,113	5,915	6,490	583.2	11,459	966
44	12/8/2018	80.8	8,115	6,229	5,832	584.8	11,058	1,008
45	12/8/2018	82.6	9,297	6,235	5,946	513.0	12,544	966
46	12/8/2018	86.0	8,643	6,181	6,320	538.8	10,523	966
47	12/8/2018	80.0	8,225	6,497	5,360	595.6	11,534	1,008
48	12/8/2018	83.5	8,148	6,614	5,920	583.4	10,696	1,008
49	12/9/2018	86.0	8,553	6,609	5,834	614.1	11,010	966
50	12/9/2018	82.7	8,493	6,248	6,330	617.4	11,405	1,008
51	12/9/2018	84.1	8,549	6,760	6,200	564.0	11,114	1,050
52	12/10/2018	85.3	8,522	6,814	5,341	624.5	11,133	966
53	12/10/2018	84.0	9,038	6,753	6,043	415.0	13,509	1,050
54	12/10/2018	81.5	8,625	6,357	6,890	596.8	11,119	1,050
55	12/11/2018	81.3	9,644	6,314	5,640	348.7	9,654	1,050
56	12/11/2018	86.9	7,959	6,400	6,100	414.4	11,160	924
57	12/11/2018	85.4	8,254	6,718	6,280	287.1	8,793	1,512
58	12/12/2018	85.9	8,565	7,116	5,074	181.7	11,731	2,226
59	12/12/2018	87.8	8,598	6,658	5,810	827.5	13,851	1,386

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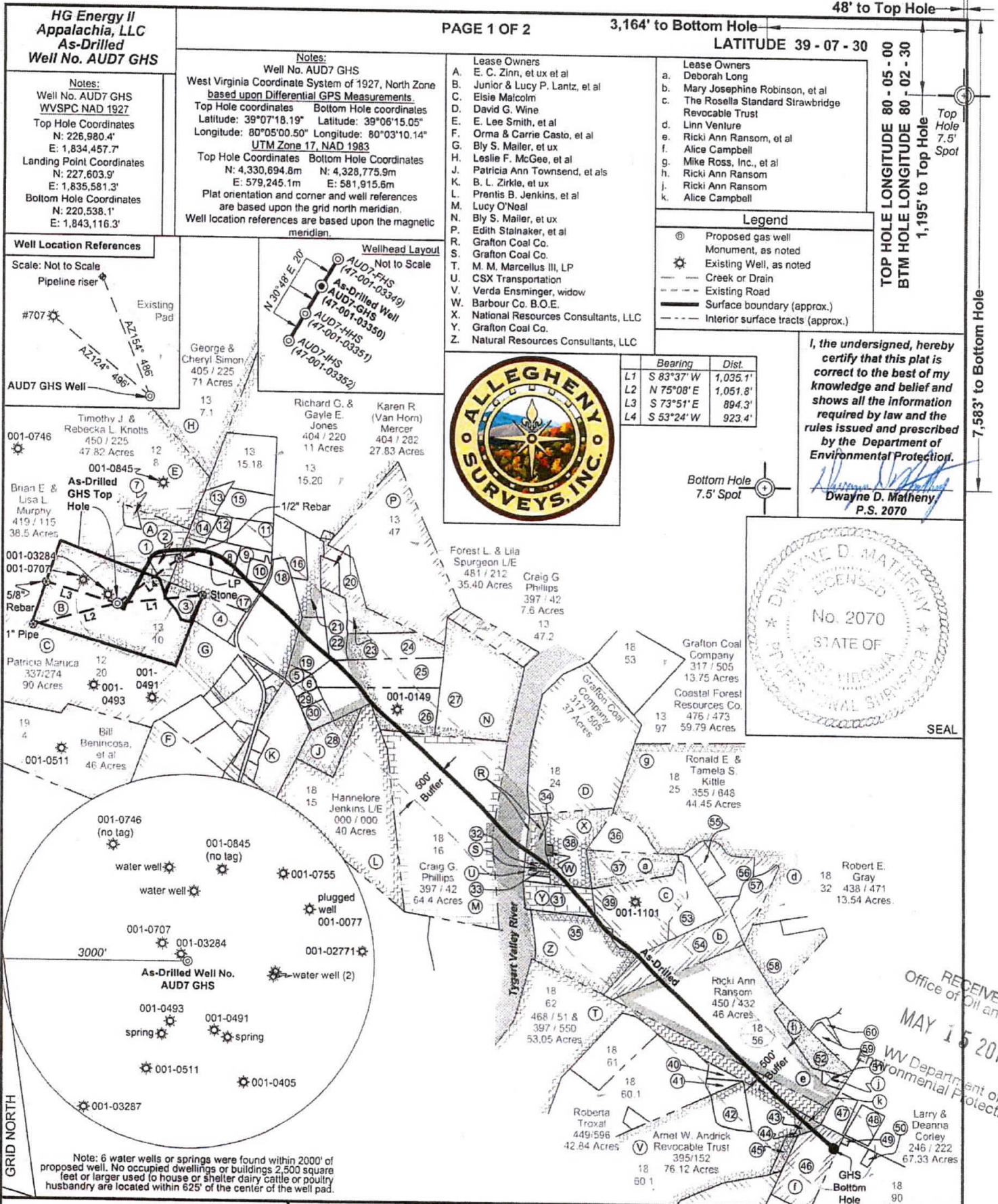
HG Energy II Appalachia, LLC

AUD7 GHS Actual tops

Lithology/Formation

	MD		TVD	
Coal	320	325	320	325
Little Lime (~67' thick)	1167	1234	1167	1234
Big Lime (~74' thick)	1234	1308	1234	1308
Big Injun (~52' thick)	1395	1447	1395	1447
Gantz (~74' thick)	1600	1674	1600	1674
Fifth Sand (~11' thick)	2114	2125	2114	2125
Bradford (~10' thick)	3060		3060	
Benson (~15' thick)	3830	3845	3830	3845
Sycamore Grit (~39' thick)	6371	6410		
Geneseo (~56' thick)	7485	7541		
Burket (~ 17' thick)	7541	7566	7314	7327
Tully (~ 40' thick)	7566	7647	7327	7366
Hamilton (~144' thick)	7647	8068	7366	7503
Marcellus Shale (~89' thick)	8068	18456	7503	
T - Onondaga	18456			

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FILE NO: 279-10-P-17
 DRAWING NO: AUD7 GHS As-Drilled Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 8 2019
 OPERATOR'S WELL NO. AUD7 GHS
 API WELL NO
 47 - 001 - 03350
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1565' WATERSHED: Elk Creek
 DISTRICT: Philippi Brian E. &
 SURFACE OWNER: Lisa L. Murphy
 ROYALTY OWNER: Junior & Lucy P. Lantz, et al; et al LEASE NO: 085710 ACREAGE: 37.83;
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,375' TVD
 18,456' MD

WELL OPERATOR: HG Energy II Appalachia, LLC
 ADDRESS: 5260 Dupont Road Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
 ADDRESS: 5260 Dupont Road Parkersburg, WV 26101

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
 Dwayne D. Matheny, P.S. 2070

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Surface Owners Table			
No.	TM-Par	Owner	Bk / Pg Acres
1	13-9	Brian E. & Lisa L. Murphy	419 / 115 15.92
2	13-9.2	Jonathan T. & Kara Keener	421 / 34 1.99
3	13-11	Gene F. Herbert III	403 / 184 2.74
4	13-12	Duane E. Moore	415 / 219 3.92
5	13-49.2	Thomas Brian & Jaime Short	385 / 397 1.00
6	18-106	John D. Kimberly Depoy	397 / 585 0.988
7	13-9.1	Brian E. & Lisa L. Murphy	327 / 621 1.09
8	13-15.28	Richard G. & Gayle E. Jones	437 / 35 4.92
9	13-15.27	Gene Herbert Jr.	437 / 40 2.05
10	13-15.5	Gene Herbert Jr.	389 / 535 1.54
11	13-15.19	Richard G. & Gayle E. Jones	418 / 453 3.95
12	13-15.26	Richard G. & Gayle R. Jones	418 / 453 1.36
13	13-15.1	Richard G. & Gayle E. Jones	404 / 220 1.96
14	13-15.29	Eric S. & Denise Sublett	472 / 233 2.07
15	13-15.7	Gayle E. Jones	401 / 344 5.00
16	13-15.10	Gary L. Mayle	410 / 507 5.25
17	13-15.8	CNX Gas Company, LLC	455 / 218 8.15
18	13-15	Gayle E. Jones, et al	WB4 / 313 14.78
19	13-15.11	Karen R. (Van Horn) Mercer	411 / 8 5.43
20	13-15.6	Michael E. & Tracy A. Hicks	433 / 29 2.00
21	13-15.25	Karen R. (Van Horn) Mercer	411 / 8 5.44
22	13-15.13	Forest L. & Lila W. Spurgeon	481 / 205 4.75
23	13-15.12	Forest L. & Lila W. Spurgeon	481 / 205 7.95
24	13-15.14	John A. Graham	412 / 377 7.70
25	13-15.15	John A. Graham	412 / 377 11.80
26	18-107	Bernard W. Gresthouse III	--- / --- 12.60
27	13-50.1	Craig G. Phillips	397 / 42 25.25
28	18-14	Patricia Ann Townsend	000 / 000 7.00
29	18-105	John & Kim Depoy	377 / 493 1.00
30	18-103	John & Kim Depoy	369 / 87 2.00

Surface Owners Table			
No.	TM-Par	Owner	Bk / Pg Acres
31	18-19	Grafton Coal Company	440 / 544 7.84
32	18-20	Grafton Coal Company	317 / 505 1.00
33	18-18	Grafton Coal Company	317 / 505 0.837
34	18-22	Grafton Coal Company	317 / 505 2.80
35	p/o13-97	Coastal Forest Resources Co.	476 / 373 56.00
36	18-26	Shane A. & Vanessa N. Halle	481 / 459 5.50
37	18-27	Floyd Jones	365 / 236 8.00
38	p/o13-97	Coastal Forest Resources Co.	476 / 373 56.00
39	18-28	Diane S. Poag	462 / 597 18.00
40	18-60.2	Clayton & Shirley Andrick	395 / 123 1.00
41	18-60	Roger & Kathy Andrick	395 / 129 1.00
42	18-59.1	Lori A. Daugherty	397 / 313 4.76
43	18-57.2	Trent M. Andrick	481 / 498 0.74
44	18-57.1	Mark Harris	451 / 290 0.10
45	18-58	Clayton G. Andrick	402 / 173 1.00
46	18-57	Mark A. & Sarah G. Harris	435 / 330 10.50
47	18-48.1	Jerry K. Jones	351 / 326 2.20
48	18-46	Cheryl Ann Corley	WB32 / 218 2.99
49	18-100	David Burner	WB43 / 108 0.25
50	18-90.1	Burton & Amy Corley	350 / 313 0.49
51	18-56.1	Evan Michael Dadisman	478 / 270 1.00
52	18-55	Ricki Ann Ransom	450 / 432 7.90
53	18-29	Geoffrey Braunsberg, et ux	000 / 000 6.50
54	18-30	Gary Lynn & Gary Levi Carper	412 / 477 14.98
55	18-30.1	Geoffrey & Judy Braunsberg	339 / 359 3.00
56	18-30.3	Rose M. Lantz L/E	412 / 474 5.00
57	18-30.2	Deborah K. & Lyonel L. Waugaman	412 / 471 5.00
58	18-53.3	Jan E. & Cynthia R. Chapman	428 / 450 10.68
59	18-54.4	Patricia & John W. Ketchem Jr.	000 / 000 1.41
60	18-54.6	Patricia & John W. Ketchem Jr.	333 / 103 0.73

RECEIVED
Office of Oil and Gas
MAY 15 2019
WV Department of
Environmental Protection

FILE NO: 279-10-P-17
DRAWING NO: AUD7 GHS As-Drilled Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 8 2019
OPERATOR'S WELL NO. AUD7 GHS
API WELL NO
47 - 001 - 03350
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1565' WATERSHED: Elk Creek

QUADRANGLE: Audra

DISTRICT: Phillippi Brian E. &

COUNTY: Barbour

SURFACE OWNER: Lisa L. Murphy

ACREAGE: 38.5

ROYALTY OWNER: Junior & Lucy P. Lantz, et al; et al

LEASE NO: 085710 ACREAGE: 37.83;

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,375' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,456' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

ADDRESS: 5260 Dupont Road

Parkersburg, WV 26101

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